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PTO 1449

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INFORMATION DISCLOSURE STATEMENT

Atty Dkt: **3501.117**
(2055-181)

Serial No.
09/978,498

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Methods and Reagents for Improved Cell-Based Assays

Applicant:
Adrian Clausell, *et al.*

Filing Date:
October 15, 2001

Group
1632 **1651**

U.S. PATENT DOCUMENTS

Initial	Patent Number	Date	Name	Class	Sub-Class	Filing Date	
SEP	AA1	4,557,862	12/10/85	Mangel, et al.	260	112	10/28/83
↓	AB1	4,640,893	2/3/87	Mangel, et al.	435	23	9/27/85
	AC1	4,940,659	7/10/90	Warrington, et al.	435	7	2/20/87
	AD1	5,070,012	12/3/91	Nolan, et al.	435	6	3/30/88
	AE1	5,238,108	8/24/93	Velezis, et al.	206	315.1	8/25/92

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Sub-Class	Translation Yes/No

OTHERS, including Author, Title, Date, Pertinent Pages, etc.

SEP	AR1	Alberts, B. <i>et al.</i> , Molecular Biology of the Cell, 2nd Edition. Garland Publishing, Inc. New York, pg 704.
	AS1	Alnemri, <i>et al.</i> , "Human ICE/CED-3 protease nomenclature," <i>Cell</i> , 1996 Oct 18;87(2):171.
	AT1	Ashmum RA and Look AT. 1990, "Metalloprotease Activity of CD13/Aminopeptidase N on the Surface of Human Myeloid Cells," <i>Blood</i> 75: 462-469.
	AR2	Bass, D.A. <i>et al.</i> "Flow cytometric studies of oxidative product formation by neutrophils: a graded response to membrane stimulation." <i>J. Immunol.</i> 130: 1910-1917.
↓	AS2	Bode, W. <i>et al.</i> , 1989, "Human leukocyte and porcine pancreatic elastase: X-ray crystal structures, mechanism, substrate specificity and mechanism-based inhibitors," <i>Biochem.</i> 28: 1951-1963.


Examiner: **SEP**

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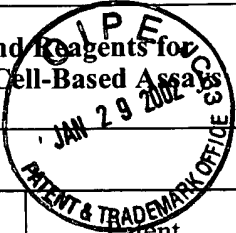
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	AA2	5,310,687	5/10/94	Bard, et al.	436	518	11/4/91
	AB2	5,698,411	12/16/97	Lucas, et al.	435	29	5/18/95
	AC2	5,759,781	6/2/98	Ward, et al.	435	6	5/1/96
	AD2	5,976,822	11/2/99	Landrum, et al	435	23	8/20/97
	AE2	6,174,673	1/16/01	Short, et al.	435	6	6/16/98
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	AT2	Coates, P.M. et al., 1975, "A preliminary genetic interpretation of the esterase isozymes of human tissues," <i>Ann. Hum. Genet. Lond.</i> 39: 1-20.					
	AR3	Crockard, A. et al., 1982, "Cytochemistry of acid hydrolases in chronic B- and T-cell leukemias," <i>Am. J. Clin. Pathol.</i> 78:437-444.					
	AS3	Darzynkiewicz, Z. et al. "Flow cytometry in analysis of cell cycle and apoptosis," <i>Semin Hematol.</i> 2001 Apr;38(2):179-93.					
	AT3	Duque, R. E., "Flow Cytometric Analysis of Lymphomas and Acute Leukemias", <i>Annals of the New York Academy of Sciences, Clinical Flow Cytometry</i> , 677, pp. 309-325 (Mar. 20, 1993).					
	AR4	Ferrer-Lopez, P. et al., "Heparin Inhibits Neutrophil-Induced Platelet Activation Via Cathepsin", <i>J. Lab Clin. Med.</i> 119(3), 231-239 (1992).					
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[Signature]	AA3	6,248,904	Zhang, et al.	549	227	7/21/99	
[Signature]	AB3	6,281,021	Egger, et al.	436	544	6/18/99	
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[Signature]	AS4	Fleischer, B., 1994, "CD26: a surface protease involved in T-cell activation," <i>Immunol. Today</i> . 15: 180-184.					
	AT4	Gartner, T.K. et al., 1985, "The tetrapeptide analogue of the alpha chain and decapeptide analogue of the gamma chain of fibrinogen bind to different sites on the platelet fibrinogen receptor," <i>Blood</i> . 66 Suppl 1: 305a.					
	AR5	Hoffmann, T. et al. 1993, "Dipeptidyl peptidase IV (CD 26) and aminopeptidase N (CD 13) catalyzed hydrolysis of cytokines and peptides with N-terminal cytokine sequences," <i>FEBS Letters</i> . 336: 61-64.					
	AS5	Hohn, P.A. et al., 1989, "Genomic organization and chromosomal localization of the human cathepsin G gene," <i>J. Biol. Chem.</i> 264: 13412-13419.					
	AT5	Jongkind, J.F. et al., 1986, "Detection of acid-b-galactosidase activity in viable human fibroblasts by flow cytometry," <i>Cytometry</i> 7:463-466.					
[Signature]	AR6	Kankaanranta, H. et al., 1994, "Effects of non-steroidal anti-inflammatory drugs on polymorphonuclear leukocyte functions in vitro: focus on fenamates," <i>Naunyn-Schmiedeberg's Arch Pharmacol.</i> 350:685-691.					
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SEP	AS6	Kohen, E. <i>et al.</i> , 1993, "An in situ study of beta-glucosidase activity in normal and gaucher fibroblasts with fluorogenic probes," <i>Cell Biochem. and Function.</i> 11:167-177.	
↓	AT6	Kojima, K. <i>et al.</i> , 1979, "A new and highly sensitive fluorescence assay for collagenase-like peptidase activity," <i>Anal. Biochem.</i> 100: 43-50.	
↓	AR7	Leytus, S.P. <i>et al.</i> , "New class of sensitive and selective fluorogenic substrates for serine proteases," <i>Biochem. J.</i> 215:253-260 (1983).	
↓	AS7	Li, C.Y. <i>et al.</i> , 1970, "Acid phosphatase isoenzyme in human leukocytes in normal and pathologic conditions," <i>J. Histochem. Cytochem.</i> 18:473-481.	
↓	AT7	Look, A.T. <i>et al.</i> 1989, "Human myeloid plasma membrane glycoprotein CD13 (gp150) is identical to aminopeptidase N," <i>J. Clin. Invest.</i> 83: 1299-1307.	
↓	AR8	McDonald, J.A. <i>et al.</i> , 1980, "Degradation of fibronectin by human leukocyte elastase," <i>J. Biol. Chem.</i> 255: 8848-8858.	
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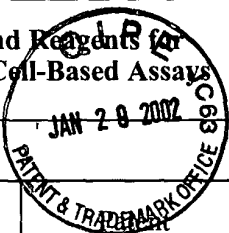
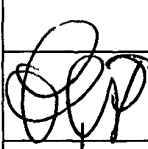

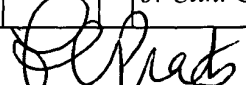
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OTHERS, including Author, Title, Date, Pertinent Pages, etc.		
	AS8	Mentlein, R. <i>et al.</i> , H. R., "Influence of Pregnancy on Dipeptidyl Peptidase IV Activity (CD26 Leukocyte Differentiation Antigen) of Circulating Lymphocytes", <i>Eur. J. Clin. Chem. Clin. Biochem.</i> , 29, 477-480 (1991).
	AT8	Mononen, <i>et al.</i> , "Enzymatic diagnosis of aspartylglycosaminuria by fluorometric assay of glycosylasparaginase in serum, plasma, or lymphocytes," <i>Clin. Chem.</i> 1994 Mar; 40(3):385-8.
	AR9	Park, R.D. <i>et al.</i> , "Hypertonic sucrose inhibition of endocytic transport suggests multiple early endocytic compartments," <i>J. Cell Physiol.</i> 1988 Jun;135(3):443-450).
	AS9	Rechsteiner, M. "Osmotic lysis of pinosomes," <i>Methods Enzymol</i> 1987;149:42-48; Okada, C.Y. <i>et al.</i> , "Introduction of macromolecules into cultured mammalian cells by osmotic lysis of pinocytic vesicles," <i>Cell</i> 1982 May;29(1):33-41.
	AT9	Riss, T.L. "Apoptosis as a biomarker in chemoprevention trials," <i>Urology</i> . 2001 Apr;57(4 Suppl 1):141-2.

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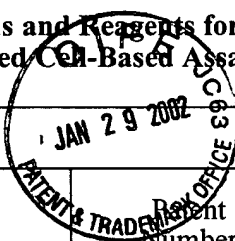
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 	AR10	Rothe <i>et al.</i> , "Flow cytometric analysis of protease activities in vital cells," <i>Biol. Chem. Hoppe Seyler</i> . 1992 Jul; 373(7): 547-54.					
	AS10	Rotman, B. <i>et al.</i> , 1963, "Fluorogenic substrates for b-D-galactosidases and phosphatases derived from fluorescein (3,6-dihydroxyfluoran) and its monomethyl ether," <i>Proc. Nat. Acad. Sci. USA</i> 50:1-6.					
	AT10	Royer, G. <i>et al.</i> , "Immobilized Derivatives of Leucine Aminopeptidase and Aminopeptidase M," <i>J. Biol. Chem.</i> 248(5), 1807-1812 (1973).					
	AR11	Ruiz, P. <i>et al.</i> , 1996, "Cytofluorographic evidence that thymocyte dipeptidyl peptidase IV (CD26) activity is altered with stage of ontogeny and apoptotic status," <i>Cytometry</i> . 23: 322-329.					
	AS11	Sanderink, G.J. <i>et al.</i> , 1988, "Human Aminopeptidases: A Review of the Literature. <i>J. Clin. Chem. Clin. Biochem.</i> 26: 795-807.					
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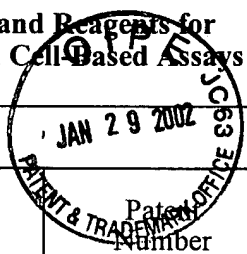
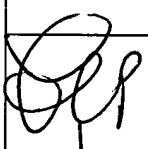
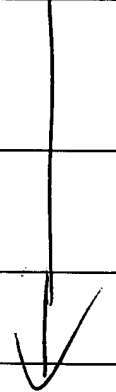
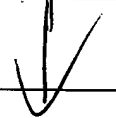
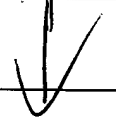
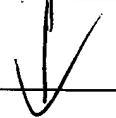

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	AT11	Saraste, A. <i>et al.</i> "Morphologic and biochemical hallmarks of apoptosis," <i>Cardiovasc Res.</i> 2000 Feb;45(3):528-37.	
	AR12	Saraste, A. <i>et al.</i> "Morphologic criteria and detection of apoptosis," <i>Herz.</i> 1999 May;24(3):189-95.	
	AS12	Schon, E. <i>et al.</i> , "The role of dipeptidyl peptidase IV in human T lymphocyte activation. Inhibitors and antibodies against dipeptidyl peptidase IV suppress lymphocyte proliferation and immunoglobulin synthesis in vitro," <i>Eur. J. Immunol.</i> 1987 Dec;17(12):1821-6.	
	AT12	Stein, R.L. <i>et al.</i> 1987, "Catalysis by human leukocyte elastase: Mechanistic insights into specificity requirements," <i>Biochem.</i> 26:1301-1305.	
	AR13	Stein, R.L. <i>et al.</i> 1987, "Catalysis by human leukocyte elastase: Proton inventory as a mechanistic probe," <i>Biochem.</i> 26:1305-1314.	
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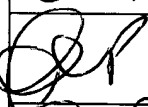
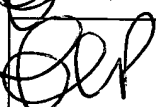

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	AS13	Tanaka, T. <i>et al.</i> , 1993, "The costimulatory activity of the CD26 antigen requires dipeptidyl peptidase IV enzymatic activity," <i>Proc. Natl. Acad. Sci. USA.</i> 90: 4586-4590.	
	AT13	Thiele, D.L. <i>et al.</i> , 1990, "Mechanism of L-leucyl-L-leucine methyl ester-mediated killing of cytotoxic lymphocytes: Dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells," <i>Proc. Natl. Acad. Sci. USA.</i> 87: 83-87.	
	AR14	Valet <i>et al.</i> , "White cell and thrombocyte disorders. Standardized, self-learning flow cytometric list mode data classification with the CLASSIF1 program system," <i>Ann. NY Acad. Sci.</i> 1993 Mar 20;677:233-51.	
	AS14	Watson, J., "Enzyme Kinetic Studies in Cell Population Using Fluorogenic Substrates and Flow Cytometric Techniques," <i>Cytometry</i> , 1(2), p. 143 (1980).	
	AT14	Weiss. S.J. 1989, "Tissue destruction by neutrophils," <i>N. Eng. J. Med.</i> 320: 365-376.	
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	A515	Whitlock, C.A., <i>et al.</i> , 1987. "Bone marrow stromal cell lines with lymphopoietic activity express high levels of a pre-B neoplasia-associated molecule," <i>Cell</i> 48: 1009-1021.					
	AS15	Woessner, J.F. Jr., 1991, "Matrix metalloproteinases and their inhibitors in connective tissue remodeling," <i>FASEB J.</i> 5: 2145-2154.					
	AT15	Wu, Q. et al., 1991. "Aminopeptidase A activity of the murine B-lymphocyte differentiation antigen BP-1/6C3," <i>Proc. Natl. Acad. Sci. USA.</i> 88: 676-680.					
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